INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Application Number 10698008 Filing Date 2003-10-30 First Named Inventor Yiqing LIANG Art Unit 2624 Examiner Name Jose TORRES Attorney Docket Number 1617880-0010

				PATENTS	Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6088468	В	2000-07-11	Ito et al.	
	2	6704502	B2	2004-03-09	Morofuji	
	3	6650778	B1	2003-11-18	Matsugu et al.	
	4	6212510	B1	2001-04-03	Brand	
	5	3100473		1963-08-13	Kissel	
	6	3304911		1967-02-21	Hakata et al.	
	7	3803571		1974-04-09	Luz	
	8	3974798		1976-08-17	Meetze, Jr.	

Application Number		10698008		
Filing Date		2003-10-30		
First Named Inventor Yiqing		g LIANG		
Art Unit		2624		
Examiner Name Jose		TORRES		
Attorney Docket Numb	er	1617880-0010		

9	4337726	1982-07-06	Czekajewski et al.	
10	4574734	1986-03-11	Mandalaywala et al.	
11	5546439	1996-08-13	Hseih	
12	5596994	1997-01-28	Bro	
13	5708767	1998-01-13	Yeo et al.	
14	5816256	1998-10-06	Kissinger et al.	
15	5821945	1998-10-13	Yeo et al.	
16	5870138	1999-02-09	Smith et al.	
17	5581276	1996-12-03	Cipolla et al.	
18	6061088	2000-05-09	Khosravi et al.	
19	6072496	2000-06-06	Guenter et al.	

Application Number		10698008	
Filing Date		2003-10-30	
First Named Inventor Yiqing		g LIANG	
Art Unit		2624	
Examiner Name Jose		TORRES	
Attorney Docket Numb	er	1617880-0010	

	20	6072903		2000-06-06	Maki et al.		
	21	6144366		2000-11-07	Numazaki et al.		
	22	6242456		2001-06-05	Shuster et al.		
	23	6263088		2001-07-17	Crabtree et al.		
	24	6630148		2003-10-07	Ingham et al.		
	25	6630347		2003-10-07	Huang et al.		
	26	6576237		2003-06-10	Ingham et al.		
	27	6715444		2004-04-06	Yabusaki et al.		
	28	4888703		1989-12-19	Baba et al.		
	29	6311644		2001-11-06	Pugh, Carl S.		
If you wish	n to ac	dd additional U.S. Paten	t citatio	n information pl	ease click the Add button.	Add	
			U.S.P.	ATENT APPLIC	CATION PUBLICATIONS	Remove	
		·		-	·	 	

Application Number		10698008	
Filing Date		2003-10-30	
First Named Inventor Yiqing		g LIANG	
Art Unit		2624	
Examiner Name Jose		TORRES	
Attorney Docket Number		1617880-0010	

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publica Date	ition	Name of Pat of cited Docu	entee or Applicant ument	Relev	s,Columns,Lines wher vant Passages or Rele es Appear	
	1									
If you wis	h to a	dd additional U.S. Publ	ished Ap	-				d butto		
				FOREIG	SN PAI	ENT DOCUM	IENIS		Remove Lines	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²		Kind Code ⁴	Publication Date	Name of Patentee Applicant of cited Document	e or	Pages,Columns,Lines where Relevant Passages or Relevan Figures Appear	T5
	1	09-251441	JP		A	1997-09-22	TOSHIBA CORP			
	2	63-133061	JP		А	1988-06-04	HITACHI LTD			
	3	09-073541	JP		А	1997-03-18	HITACHI DENSHI L	_TD		
	4	11-259643	JP		А	1999-09-24	MITSHUBISHI ELECTRIC INF TECHNOL CHENT AMERICA	ER		
	5	08-240830	JP		A	1996-09-17	CANON INC			
	6	2000-215319	JP		А	2000-08-04	CANON INC.			
	7	11-052215	JP		А	1999-02-26	NIKON CORP.			×

Application Number		10698008	
Filing Date		2003-10-30	
First Named Inventor	Yiqing	; LIANG	
Art Unit		2624	
Examiner Name	Jose '	TORRES	
Attorney Docket Number		1617880-0010	

	8	11-296651	JP	A	1999-10-29	CHUO ELECTRIC CO.		×	
	9	08-063603	JP	А	1996-03-08	OLYMPUS OPTICAL		×	
If you wis	h to ac	dd additional Foreign Pa	atent Document	citation	information pl	ease click the Add buttor	Add	1	
			NON-PATE	NT LITE	RATURE DO	CUMENTS	Remove		
Examiner Initials*	Examiner Initials* Cite No Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.								
	1	Philips, Michael et al.; "V	Philips, Michael et al.; "Video Segmentation Techniques For News"; SPIE, vol. 2916; 1996; pp. 243-251						
	2	Wolf, Wayne; "Hidden Markov Model Parsing Of Video Programs"; IEEE; 1997; pp. 2609-2611							
	3	Crnic, Linda S. et al.; "Automated Analysis of Digitized Videotapes of Mouse Home-Cage Behavior"; 2000 Neuroscience Annual Conference, New Orleans; Oct. 2000; (1pg).							
	4	Crnic, Linda S. et al.; "Automated Analysis of Digitized Videotapes of Mouse Home-Cage Behavior"; Symposium of Behavioral Phenotyping of Mouse Mutants, Cologne, Germany; Feb. 17-19, 2000; (1pg).							
	5	Liang, Yiqing et al.; "Multiple Motion Detection Using Genetic Algorithms"; DARPA Image Understanding Workshop, Monterey, CA; Nov. 1998; (8pgs).							
	6	Liang, Yiqing et al; "A Shot Boundary Detection Algorithm Adapted For Predator Video"; Applied Imagery and Pattern Recognition (AIPR) '98; Washington, D.C.; Oct. 1998; (9pgs).							
	7	Zeng, H. et al; "Data Min Recognition (AIPR) '98, '				ng Machine Learning"; App	lied Imagery and Pattern		

Application Number		10698008	
Filing Date		2003-10-30	
First Named Inventor	Yiqing	; LIANG	
Art Unit		2624	
Examiner Name	Jose '	TORRES	
Attorney Docket Number		1617880-0010	

8	Liang Yiqing et al.; "A Ground Target Detection System For Digital Video Database"; Conference on Visual Information Processing VII, AeroSense '98, Orlando, Florida; Apr. 1998; (6pgs).	
9	Liang, Yiqing et al.; "A Practical Video Indexing and Retrieval System"; Applied Imagery and Pattern Recognition (AIPR) '97, Washington, D.C.; Oct. 1997; (8pgs)	
10	Liang, Yiqing et al; "A Practical Video Database Based on Language and Image Analysis"; AAAI Technical Report, SS-97-03,, ed., Alex Hauptmann & Michael Witbrock, Intelligent Use And Integration Of Text, Image, Video and Speech; Mar. 1997; (6pgs).	
11	Wolf, Wayne et al.; "A Digital Video Library for Classroom Use"; International Conference on Digital Library '95, Tsukuba; Aug. 1995; (6pgs)	
12	Wolf, Wayne et al.; "A Digital Video Library On The World Wide Web"; ACM Multimedia '96, Addison-Wesley, Publishing Company; Nov. 1996; pp. 433-434	
13	Liang, Yiqing et al.; "Apprenticeship Learning of Domain Models"; Seventh Intl. Conference On Software Engineering And Knowledge Engineering, Rockville, Maryland; Jun. 1995; (9pgs).	
14	Liu, Bede et al.; "The Princeton Video Library of Politics"; Digital Libraries '94, Texas A & M University; Jun. 1994; pp. 215-216	
15	Palmer, James D. et al.; "Classification As An Approach To Requirements Analysis"; 1.sup.st ASIS SIG/CR Classification Research Workshop, Toronto, Canada; Nov. 4, 1990; pp. 129-136	
16	Palmer, James D. et al., "Approaches to Domain Model Construction", Domain Modeling Workshop, 13.sup.th International Conference on Software Engineering, Austin, Texas; Mar. 26, 1991; pp. 130-135	
17	Schrott, Lisa M. et al., "Sensitivity To Foot Shock In Autoimmune NZB .times. NZW F1 Hybrid Mice"; Physiology & Behavior; vol. 56; No. 5; 1994; pp. 849-853	
18	Coussons-Read, Mary E. et al.; "Behavioral Assessment Of The Ts65Dn Mouse, A Model For Down Syndrome: Altered Behavior In The Elevated Plus Maze And Open Field"; Behavior Genetics; vol., 26; No. 1; 1996; pp. 7-13.	

Application Number		10698008		
Filing Date		2003-10-30		
First Named Inventor	Yiqing	; LIANG		
Art Unit		2624		
Examiner Name	Jose ⁻	TORRES		
Attorney Docket Number		1617880-0010		

19	Schrott, Lisa M. et al.; "Increased Anxiety Behaviors In Autoimmune Mice"; Behavioral Neuoscience; vol. 110; No. 3; 1996; pp. 492-502	
20	Schrott, Lisa M. et al.; "The Role Of Performance Factors In The Active Avoidance-Conditioning Deficit In Autoimmune Mice"; Behavioral Neuroscience; vol. 110; No. 3; 1996; pp. 486-491	
21	Schrott, Lisa M. et al.; "Anxiety Behavior, Exploratory Behavior, And Activity In NZB .times. NZW F1 Hybrid Mice: Role Of Genotype And Autoimmune Disease Progression"; Brain, Behavior And Immunity; vol. 10; 1996; pp. 260-274.	
22	Schrott,, Lisa M. et al.; "Attenuation Of Behavioral Abnormalities In Autoimmune Mice By Chronic Soluble Interferongamma. Receptor Treatment"; Brain, Behavior And Immunity; vol. 12; 1998; pp. 90-106.	
23	Sakic, Boris et al.; "Reduced Corticotropin-Releasing Factor And Enhanced Vasopressin Gene Expression In Brains Of Mice With Autoimmunity-Induced Behavioral Dysfunction"; Journal Of Neuroimmunology 96; 1999; pp. 80-91.	
24	Crnic, L.S. et al.; "Down Syndrome: Neuropsychology And Animal Models"; Progress in Infancy Research; vol. 1; 2000; pp. 69-111	
25	Granholm, Ann-Charlotte et al.; "Loss of Cholinergic Phenotype in Basal Forebrain Coincides With Cognitive Decline In A Mouse Model of Down's Syndrome"; Experimental Neurology; vol. 161; 2000; pp. 647-663.	
26	Sago, Haruhiko et al.; "Genetic Dissection Of Region Associated With Behavioral Abnormalities In Mouse Models For Down Syndrome"; Pediatric Research; vol. 48; No. 5; 2000; pp. 606-613	
27	Hyde, L.A. et al.; "Ts65Dn Mice, A Model For Down Syndrome, Have Deficits In Context Discrimination Learning Suggesting Impaired Hippocampal Function"; Behavioral Brain Research; vol. 118; 2001; pp. 53-60.	
28	Hyde, L.A. et al.; "Motor Learning In Ts65Dn Mice, A Model For Down Syndrome"; Developmental Psychobiology; vol. 38; 2001; pp. 33-45	
29	Nielsen, D.M. et al.; "Elevated Plus Maze Behavior, Auditory Startle Response,, And Shock Sensitivity In Predisease And In Early Stage Autoimmune Disease MRL/lpr Mice"; Brain Behavior And Immunity; 2001; pp. 1-16	

Application Number		10698008
Filing Date		2003-10-30
First Named Inventor Yiqing		g LIANG
Art Unit		2624
Examiner Name Jose		TORRES
Attorney Docket Number		1617880-0010

30	Hyde, L.A. et al.; "Age-Related Deficits In Context Discrimination Learning In Ts65Dn Mice That Model Down Syndrome And Alzheimer's Disease"; Behavioral Neuroscience; vol. 115; 2001; pp. 1-8	
31	Crnic, L.S.; "Effects Of Infantile Undernutrition On Adult Learning In Rats: Methodological And Design Problems"; Psychological Bullentin; vol. 83; No. 4; 1976; pp. 715-728.	
32	Crnic, L.S.; "Transgenic And Null Mutant Animals For Psychosomatic Research"; Psychosomatic Medicine; vol. 58; 1996; pp. 622-632	
33	Dierssen, Mara et al.; "Murine Models For Down Syndrome"; Physiology And Behavior; vol. 73; 2001; pp. 859-871	
34	Cohen, J.J. et al.; "Behavior, Stress, And Lymphocyte Recirculation"; Stress, Immunity And Aging; 1984; pp. 73-80	
35	Crnic, L.S.; "Early Experience Effects: Evidence For Continuity?"; Continuities And Discontinuities In Development, Plenum Press, New York; 1984; pp. 355-368.	
36	Crnic, L.S. et al.; "Animal Modes Of Human Behavior: Their Application To The Study Of Attachment"; The Development of Attachment And Affiliative Systems: Neurobiological And Psychobiological Aspects, Plenum, New York; 1982; pp. 31-42.	
37	Crnic, L.S.; "Animal Models Of Early Malnutrition: A Comment On Bias, Dependability, And Human Importance"; Malnutrition And Behavior: Critical Assessment Of Key Issues; 1984; pp. 460-468.	
38	Kobla, Vikrant et al.; "Detection Of Slow-Motion Replay Sequences For Identifying Sports Videos"; In Proceedings Of IEEE Third Workshop On Multimedia Signal Processing (MMSP); Sep. 1999; (6pgs).	
39	Dorai, C. et al.; "Generating Motion Descriptors From MPEG-2 Compressed HDTV Video For Content-Based Annotation And Retrieval"; In Proceedings Of IEEE Third Workshop On Multimedia Signal Processing (MMSP); Sep. 1999; (4pgs).	
40	Kobla, Vikrant et al.; "Identifying Sports Videos Using Replay, Text, And Camera Motion Features"; Proceedings Of The SPIE Conference On Storage And Retrieval For Media Databases; vol. 3972; Jan. 2000; (12pgs).	

Application Number		10698008
Filing Date		2003-10-30
First Named Inventor Yiqing		; LIANG
Art Unit		2624
Examiner Name Jose		TORRES
Attorney Docket Number		1617880-0010

41	Liang, Yiqing et al.; "Toward An Object And Multiple-Modalities Based Indexing And Retrieval Of Video Contents"; DARPA's Image Understanding Workshop; Monterey, California; Nov. 1998; (21pgs)				
42	Liang, Yiqing; "A Practical Digital Video Database Based On Language And Image Analysis"; International Conference Multimedia Databases On Internet; Seoul, Korea; Oct. 10, 1997; (23pgs).				
43	Yu, Hong-Heather et al; "A Visual Search System For Video And Image Databases"; In Proceedings, ICMCS 1997, IEEE Computer Society Press; 1997; pp. 517-524				
44	Yu, Hong-Heather et al.; "Multi-Resolution Video Segmentation Using Wavelet Transformation"; In Storage And Retrieval For Image And Video Databases VI, SPIE; vol. 3312; 1998; pp. 176-187				
45	Yu, Hong-Heather et al.; "A Hierarchical Multiresolution Video Shot Transition Detection Scheme"; Computer Vision And Image Understanding; vol. 75; Jul./Aug. 1999; pp. 196-213				
46	Li, Yanbing et al; "Semantic Image Retrieval Through Human Subject Segmentation And Characterization"; In Storage And Retrieval For Image And Video Databases V, SPIE; vol. 3022; 1997; pp. 340-351.				
47	Yu, Hong-Heather et al; "A Multi-Resolution Video Segmentation Scheme For Wipe Transition Identification"; In Proceedings IEEE ICASSP; vol. 5; 1998; pp. 2965-2968.				
48	Liang, Yiqing Ph.D.; "Video Retrieval Based On Language And Image Analysis"; Defense Advanced Research Projects Agency Information Systems Office; May 28, 1999; 35 pgs				
49	Crnic, L.S.; "The Effects Of Chronic Lithium Chloride Administration On Complex Schedule Performance, Activity, And Water Intake In The Albino Rat"; Physiological Psychology; vol. 4; 1976; pp. 166-170				
50	Crnic, L.S.; "Maternal Behavior In The Undernourished Rate (Rattus Norvegicus)"; Physiology & Behavior; vol. 16; 1976; pp. 677-680.				
If you wish to add additional non-patent literature document citation information please click the Add button Add					

(Not for submission under 37 CFR 1.99)

Application Number		10698008
Filing Date		2003-10-30
First Named Inventor Yiqing		LIANG
Art Unit		2624
Examiner Name Jose		TORRES
Attorney Docket Number		1617880-0010

EXAMINER SIGNATURE					
Examiner Signature		Date Considered			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

¹ See Kind Codes of USPTO Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

(Not for submission under 37 CFR 1.99)

Application Number		10698008
Filing Date		2003-10-30
First Named Inventor Yiqing		g LIANG
Art Unit		2624
Examiner Name Jose		TORRES
Attorney Docket Number		1617880-0010

		CERTIFICATION	I STATEMENT			
Plea	ase see 37 CFR 1	.97 and 1.98 to make the appropriate selecti	on(s):			
	That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).					
OF	1					
	That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).					
	See attached ce	rtification statement.				
	Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.					
X	K None					
	ignature of the ap n of the signature.	SIGNA plicant or representative is required in accord		18. Please see CFR 1.4(d) for the		
Signature		/Wendi R. Schepler/	Date (YYYY-MM-DD)	2006-12-01		
Name/Print		Wendi R. Schepler	Registration Number	43,091		
		rmation is required by 37 CFR 1.97 and 1.98 (and by the USPTO to process) an application	•	•		

1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria**,

EFS Web 2.0

VA 22313-1450.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a
 court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement
 negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
 - 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.